www.xtrapapers.com

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the May/June 2011 question paper for the guidance of teachers

0445 DESIGN AND TECHNOLOGY

0445/12

Paper 1 (Design), maximum raw mark 50

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes must be read in conjunction with the question papers and the report on the examination.

• Cambridge will not enter into discussions or correspondence in connection with these mark schemes.

Cambridge is publishing the mark schemes for the May/June 2011 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

www.xtrapapers.com

	Page	e 2	М	ark Scheme	: Teachers' v	ersion	Syllabus	0	
				IGCSE –	May/June 20	11	0445	Dan	
1	(a)		•		•	•	ean, stable in use, ge for items, etc.	ONDOCO (1x4)	hbridge.
	(b)		drawings		suitable sto	rage systems	- shelves, boxes,	(2x2)	[4]
	(c)	rata if f	fewer.		hree differer	nt ideas for ma	aximum marks. Pro		
		Simple		displaying a			e of techniques ge of techniques –	(0-2)	
		shading /colour/annotation etc High quality drawings using a wide range of techniques with clear annotation				(3-4)			
		and de	tail	rings using a	wide range o	it techniques w	ith clear annotation	(5-6)	
		•	stic design	s showing ou ail. sensible s	itlines only solutions that o	could work		(0-2) (3-4)	
				•		e, detailed cons	struction	(5-6)	[12]
	(d)	Evalua	ition of eac	h of the idea	s. At least 3	evaluations up	to 2 marks each	(0-6)	
		Selection	on and jus	tification. (1	+1)			(2)	[8]
	(e)	-	y of drawi	•					
		Good li	ine work, ι		proportions,		at show clearly all	(1) (2-3)	
		detail		-	-			(4)	
		Dimen	A	dditional det	dimensions or ail dimensions			(2)	
		A simp		ach showing			ction to be used views or with some	(0-2)	
		annota	annotation All constructional detail will be clear with good annotation and additional			(3-4)			
				s necessary	be clear with	good annota	lion and additional	(5-6)	[12]
	(f)	Suitabl	le specific	materials sta	ated.			(2)	
	` '		-	ons for choic				(2)	[4]
	(m)	0	ال حالا حمد ال	ototo -l				(4)	
	(g)		le method detailed de	stated. scription of:	•			(1) (3)	
					tools.			(2)	[6]

[Total: 50]

	Page	e 3	Ма	rk Scheme	Scheme: Teachers' version			Syllabus		.0
				IGCSE -	May/Jun	e 2011		()445	735
2	(a)	Accept	any four	additional	suitable	points -	– appeal	to pupils	s, compact	Canny

•	(a)	Accept any four additional suitable points – appeal to pupils, compact, colourful, include NEW TERM, lightweight, items located well, etc.	(1x4)	Mbride
	(b)	Accept any two viewing systems – flap, clear sheet 'window', opening, grill, gauze, vacuum 'bubble', etc.	(2x2)	[4]
	(c)	Any suitable ideas. At least three different ideas for maximum marks. Pro rata if fewer. Communication Simple drawings displaying a low standard or limited range of techniques Clear drawings displaying a good standard and a range of techniques – shading /colour/annotation etc High quality drawings using a wide range of techniques with clear annotation and detail Suitability Simplistic designs showing outlines only Rather more detail, sensible solutions that could work Accurate solutions, good fitness for purpose, detailed construction	(0-2) (3-4) (5-6) (0-2) (3-4) (5-6)	[12]
	(d)	Evaluation of each of the ideas. At least 3 evaluations up to 2 marks each Selection and justification. (1+1)	(0-6) (2)	[8]
	(e)	Quality of drawing Poor line quality, proportions, little detail Good line work, use of colour, proportions, some detail High standard throughout with a range of techniques that show clearly all detail Dimensions 2 or 3 overall dimensions only - 1 Additional detail dimensions - 2 Construction details A simplistic approach showing little or no detail of construction to be used Most constructional detail may be obvious from overall views or with some annotation All constructional detail will be clear with good annotation and additional detail drawings as necessary	(1) (2-3) (4) (2) (0-2) (3-4) (5-6)	[12]
	(f)	Suitable specific materials stated. Appropriate reasons for choice.	(2) (2)	[4]
	(g)	Suitable method stated. Good detailed description of: processes tools.	(1) (3) (2)	[6]

[Total: 50]

www.xtrapapers.com

Syllabus

			IGCSE – Ma	ay/June 2011	0445	Sp3		
3	(a)	hygien	-	able points – will not tip ov to fill, adjustable timing, f		(1x4)	ambridge	
	(b)		ltage supply/motor, solar	 clockwork, battery pow power, etc.(similar batter 		(2x2)	[4]	
	(c)	rata if	Any suitable ideas. At least three different ideas for maximum marks. Pro rata if fewer. Communication Simple drawings displaying a low standard or limited range of techniques					
		Clear	Clear drawings displaying a good	od standard and a range of techniq	•	(0-2)		
		shading /colour/annotation etc High quality drawings using a w	ide range of techniques with clea	with clear	(3-4)			
			innotation and detail			(5-6)		
		Rather	stic designs showing outl r more detail, sensible so		nstruction	(0-2) (3-4) (5-6)	[12]	
	(d)	Evalua	ation of each of the ideas	. At least 3 evaluations u	p to 2 marks each	(0-6)		
		Select	ion and justification. (1+ ²	1)		(2)	[8]	
	(e)	Poor li Good l	cy of drawing ine quality, proportions, lit line work, use of colour, p		t show clearly all	(1) (2-3)		
		detail	_		conon clourly an	(4)		
		Dimensions 2 or 3 overall di Additional detail	mensions only - 1 dimensions - 2	(2)				
		Construction details A simplistic approach showing	ittle or no detail of construc	ction to be used	(0-2)			
		Most c	Most constructional detail may be annotation All constructional detail will be constructional detail may be annotation.	pe obvious from overall views or lear with good annotation and a		(3-4)		
		All con			า and additional	` ,	F4 01	
		detail	drawings as necessary			(5-6)	[12]	
	(f)		le specific materials stat priate reasons for choice.			(2) (2)	[4]	
	(g)		le method stated. detailed description of:	processes tools.		(1) (3) (2)	[6]	

Mark Scheme: Teachers' version

Page 4

[Total: 50]